8. (Original) The kit of Claim 6, wherein said tRNA of said tRNA/marker conjugate is a suppressor tRNA.

9. (Original) The kit of Claim 6, wherein said component of said protein synthesis system comprises ribosomes.

AMENDMENTS TO THE SPECIFICATION PURSUANT TO 37 C.F.R. § 1.121

Page 94 Paragraph 1

A. Modification of aminoacylated tRNA with BODIPY-FL-SSE

To the above aminoacylated-tRNA solution, 2.5 μl [[(l]] of 1N $NaHCO_3$ was added (final conc. 50 mM, pH = 8.5) followed by 10 μl [[(l]] of 10 mM solution of BODIPY-FL-SSE (Molecular Probes) in water. The mixture was incubated for 10 min at 0^0C and the reaction was quenched by the addition of lysine (final concentration = 100 mM). To the resulting solution 0.1 volume of 3 M NaOAc, pH = 5.0 was added and the modified tRNA was precipitated with 3 volumes of ethanol. Precipitate was dissolved in 50[[ml]] microliters of water and purified on Sephadex G-25 gel filtration column (0.5 X 5 cm) to remove any free fluorescent reagent, if present. The modified tRNA was stored frozen (-70^0C) in small aliquots in order to avoid free-thaws.

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B. Modification of aminoacylated tRNA with BODIPY-FL-SE

To the above aminoacylated-tRNA solution, 2.5 μl [[(l]] of 1N $NaHCO_3$ (final conc. 50 mM, pH = 8.5) and 20 μl [[(l]] of DMSO was added followed by 10 μl [[(l]] of 10 mM solution of BODIPY-FL-SE (Molecular Probes) in DMSO. The mixture was incubated for 10 min at 0^0C and the reaction was quenched by the addition of lysine (final concentration = 100 mM). To the resulting solution 0.1 volume of 3 M NaOAc, pH = 5.0 was added and the modified tRNA was precipitated with 3 volumes of ethanol. Precipitate was dissolved in 50 μl[[ml]] of water and purified on Sephadex G-25 gel filtration column (0.5 X 5 cm) to remove any free fluorescent reagent, if present. The modified tRNA was stored frozen (-70^0C) in small aliquots in order to avoid free-thaws.

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To the aminoacylated-tRNA solution described above, 2.5 µl [[(l]] of 1N $NaHCO_3$ was added (final conc. 50 mM, pH = 8.5) followed by 10 µl [[(l]] of 10 mM solution of sulfosuccinimidyl 7-amino-4-methylcoumarin-3-acetate (AMCA-sulfo-NHS; Pierce Chemicals) in water. The mixture was incubated for 10 min at 0°[[(]]C and the reaction was quenched by the addition of lysine (final concentration = 100 mM). To the resulting solution 0.1 volume of 3 M NaOAc, pH = 5.0 was added and the modified tRNA was precipitated with 3 volumes of ethanol. Precipitate was dissolved in 50 microliters of water and purified on Sephadex G-25 gel filtration column (0.5 X 5 cm) to remove any free fluorescent reagent, if present. The modified tRNA was stored frozen (-70°C) in small aliquots in order to avoid free-thaws.

Page 95 Paragraph 3

To the above aminoacylated-tRNA solution, 2.5 µl [[(l]] of 1N $NaHCO_3$ (final conc. 50 mM, pH = 8.5) and 20 µl [[(l]] of DMSO was added followed by 10 µl [[(l]] of 10 mM solution of succinimidyl 7-amino-methyl-amino-coumarin acetate (AMCA-NHS; Molecular Probes) in DMSO. The mixture was incubated for 10 min at 0°C and the reaction was quenched by the addition of lysine (final concentration = 100 mM). To the resulting solution 0.1 volume of 3 M NaOAc, pH = 5.0 was added and the modified tRNA was precipitated with 3 volumes of ethanol. Precipitate was dissolved in 50 microliter of water and purified on Sephadex G-25 gel filtration column (0.5 X 5 cm) to remove any free fluorescent reagent, if present. The modified tRNA was stored frozen (-70°C) in small aliquots in order to avoid free-thaws.